

U.S. Application No. 10/763,651  
Reply to Office Action dated July 11, 2005

PATENT  
450100-04890

### IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

#### Listing of Claims

1. (Currently Amended) A three-dimensional display apparatus comprising:  
displaying means for displaying N images of different viewing points that can be viewed at N different viewing points, respectively;

image-forming means for forming said N images displayed by said displaying means at predetermined image-forming positions; and

light-condensing means for individually condensing said images to N observing positions that correspond to said N different viewing points, said light-condensing means being disposed at said image-forming positions at which said N images are formed,

wherein said light-condensing means is a transmission-type or reflection-type hologram screen having a function of diffracting and condensing adapted to diffract and condense images formed by said image-forming means to said N observing positions, and

wherein said display means are vertically shifted so that arrival positions of rays of light whose direction remains unchanged by said light-condensing means passing through said display means, which are not diffracted by said light-condensing means but advance straight, do not coincide with said observing positions.

2. (Currently Amended) The three-dimensional display apparatus according to claim 1, wherein ~~said~~ N is three or more.

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3. (Original) The three-dimensional display apparatus according to claim 1, wherein said images of said N viewing points are images of an same object captured from N different viewing points.

4. (Currently Amended) The three-dimensional display apparatus according to claim 1, wherein said light-condensing means comprises a hologram screen comprising ~~[[a]]~~ multiple ~~hologram~~ holograms or ~~a multi-layered hologram~~ multiple holographic layers.

5. (Currently Amended) The three-dimensional display apparatus according to claim 1, wherein said light-condensing means condenses said ~~picture~~ N images to predetermined observing positions on a predetermined observation plane.

6. (Original) The three-dimensional display apparatus according to claim 5, wherein said predetermined observation plane is a plane that is substantially parallel to said light-condensing means.

7. (Canceled)

8. (Original) The three-dimensional display apparatus according to claim 5, wherein a gap between two or more observing positions of said N observing positions is substantially equal to a gap between eyes of a human being, said two or more observing positions being positioned on the same horizontal line of the same observation plane.

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9-12. (Canceled)

13. (Currently Amended) A three-dimensional display apparatus comprising:  
displays for displaying N images ~~of different viewing points that can be viewed at~~  
N different viewing points, respectively;

lenses for forming said N images displayed by said displays at predetermined  
image-forming positions; and

a light-condenser for individually condensing said images to N observing  
positions that correspond to said N different viewing points, said light-condenser being disposed  
at said image-forming positions at which said N images are formed,

wherein~~[[:]]~~ said light-condenser is a transmission-type or reflection-type  
hologram screen ~~having a function of diffracting and condensing adapted to diffract and~~  
condense images formed by said lenses to said N observing positions, and

wherein said displays are vertically shifted so that arrival positions of rays of light  
~~whose direction remains unchanged by said light condenser passing through said displays, which~~  
are not diffracted by said light condenser but advance straight, do not coincide with said  
observing positions.

14. (Canceled)